

What is claimed is:

1. A mobile communication system including a core network having a node with a packet switching function for packet data communication, a radio network controller, and a mobile terminal,
5 wherein a connection is set on an interface between the radio network controller and the node, the mobile communication system comprising:

connection setting means for setting the connection for multicast data communication faster than the packet data
10 communication, separately from the connection for the packet data communication.

2. The mobile communication system according to claim 1, wherein the connection setting means sets the connection for the multicast data communication in common to a plurality of
15 mobile terminals that attempt to receive a service of the multicast data communication.

3. The mobile communication system according to claim 2, wherein the connection setting means sets the connection for the multicast data communication in response to a service
20 receiving request from a first mobile terminal attempting to receive the multicast data communication service.

4. The mobile communication system according to claim 2, further comprising:

a first connection releasing means for releasing the connection for the multicast data communication in response to a service leaving request from a last mobile terminal receiving the multicast data communication service.

5 5. The mobile communication system according to claim 1, wherein the connection setting means sets the connection for the multicast data communication individually to each of the plurality of the mobile terminals that attempt to receive the multicast data communication service.

10 6. The mobile communication system according to claim 5, further comprising:

 a second connection releasing means for, in response to the multicast data communication service leaving request from each of the plurality of mobile terminals, releasing the
15 connection for the multicast data communication corresponding to the mobile terminal.

7. The mobile communication system according to claim 1, wherein the connection for the multicast data communication in the mobile terminal is managed in a PS domain including an area
20 for the packet switching function in the core network.

8. The mobile communication system according to claim 1, wherein the connection for the multicast data communication in the mobile terminal is managed in a domain dedicated to the multicast data communication which is different from the PS domain

including the area for the packet switching function in the core network.

9. A method of controlling operations in a mobile communication system including a core network having a node with a packet switching function for packet data communication, a radio network controller, and a mobile terminal, wherein a connection is set on an interface between the radio network controller and the node, the method comprising:

10 a connection setting step of setting the connection for multicast data communication faster than the packet data communication, separately from the connection for the packet data communication.

10. The method according to claim 9, wherein the connection setting step includes setting the connection for the multicast data communication in common to a plurality of mobile terminals that attempt to receive a service of the multicast data communication.

11. The method according to claim 10, wherein the connection setting step includes setting the connection for the multicast data communication in response to a service receiving request from a first mobile terminal attempting to receive the multicast data communication service.

12. The method according to claim 10, further comprising:

a first connection releasing step of releasing the connection for the multicast data communication in response to a service leaving request from a last mobile terminal receiving the multicast data communication service.

5 13. The method according to claim 9, wherein the connection setting step includes setting the connection for the multicast data communication individually to each of the plurality of the mobile terminals that attempt to receive the multicast data communication service.

10 14. The method according to claim 13, further comprising:
a second connection releasing step of, in response to the multicast data communication service leaving request from each of the plurality of mobile terminals, releasing the connection for the multicast data communication corresponding to the mobile
15 terminal.

15. A node in a mobile communication system including a core network having a node with a packet switching function for packet data communication, a radio network controller, and a mobile terminal, wherein a connection is set on an interface between
20 the node and the radio network controller, the node in the mobile communication system comprising:

connection setting means for setting the connection for multicast data communication faster than the packet data communication, separately from the connection for the packet
25 data communication.

16. The node according to claim 15, wherein the connection setting means sets the connection for the multicast data communication in common to a plurality of mobile terminals that attempt to receive a service of the multicast data communication.

5 17. The node according to claim 16, wherein the connection setting means sets the connection for the multicast data communication in response to a service receiving request from a first mobile terminal attempting to receive the multicast data communication service.

10 18. The node according to claim 16, further comprising:
a first connection releasing means for releasing the connection for the multicast data communication in response to a service leaving request from a last mobile terminal receiving the multicast data communication service.

15 19. The node according to claim 15, wherein the connection setting means sets the connection for the multicast data communication individually to each of the plurality of the mobile terminals that attempt to receive the multicast data communication service.

20 20. The node according to claim 19, further comprising:
a second connection releasing means for, in response to the multicast data communication service leaving request from each of the plurality of mobile terminals, releasing the

connection for the multicast data communication corresponding to the mobile terminal.

21. A computer readable program for making a computer execute operation controlling of a node in a mobile communication system including a core network having a node with a packet switching function for packet data communication, a radio network controller, and a mobile terminal, wherein a connection is set on an interface between the radio network controller and the node, the program comprising:

10 a connection setting step of setting the connection for multicast data communication faster than the packet data communication, separately from the connection for the packet data communication.

22. The program according to claim 21, wherein the connection setting step includes setting the connection for the multicast data communication in common to a plurality of mobile terminals that attempt to receive a service of the multicast data communication.

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23. The program according to claim 22, wherein the connection setting step includes setting the connection for the multicast data communication in response to a service receiving request from a first mobile terminal attempting to receive the multicast data communication service.

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24. The program according to claim 22, further comprising:

a first connection releasing step of releasing the connection for the multicast data communication in response to a service leaving request from a last mobile terminal receiving the multicast data communication service.

5 25. The program according to claim 21, wherein the connection setting step includes setting the connection for the multicast data communication individually to each of the plurality of the mobile terminals that attempt to receive the multicast data communication service.

10 26. The program according to claim 25, further comprising:
a second connection releasing step of, in response to the multicast data communication service leaving request from each of the plurality of mobile terminals, releasing the connection for the multicast data communication corresponding to the mobile
15 terminal.